

WHAT IS CLAIMED IS:

1. A stepping motor comprising
a rotor assembly, and
a stator assembly including first and second stator
units which are arranged horizontally on a same plane, and
each of which is composed of: upper and lower stator yokes
which are shaped substantially semi-annular, arranged
parallel to and squarely opposite to each other, each have
a plurality of pole teeth formed along its inner
circumference so as to surround the rotor assembly in a
non-contact manner, and which are coupled to each other
such that their respective pole teeth oppose each other so
as to intermesh; a coil for exciting, wound rectangularly,
and disposed so as to be sandwiched between the upper and
lower stator yokes; and a spacer shaped substantially in
rectangular parallelepiped, oriented parallel to an axial
direction of the rotor assembly, and inserted through the
coil.
2. A stepping motor according to Claim 1, wherein the
pacer is composed of a plurality of plates formed by
stamping and laminated on one another.
3. A stepping motor according to Claim 1, wherein the
upper and lower stator yokes are coupled to each other via
the spacer by engaging with upper and lower protrusions of
the spacer.
4. A stepping motor according to Claim 1, wherein the
spacer is formed of a same material as the upper and lower

stator yokes.

5. A stepping motor according to Claim 1, wherein the upper and lower stator yokes of the first stator unit are connected respectively to the upper and lower stator yokes of the second stator unit as one body structure, and wherein interconnecting portions between the first and second stator units are each provided with a slit cut.
6. A stepping motor according to Claim 1, further comprising a front plate, which is formed of a non-magnetic material, disposed on both upper stator yokes of the first and second stator units, has arms for fixation onto the stator assembly, and which has lugs for attaching the stepping motor to an outside device.

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